

**Amendments to the Claims**

1. (Currently amended) A cervical facet resurfacing implant comprising:  
a superior implant having an articulating surface and a fixation surface and configured for secured placement on a resurfaced superior articular facet of a selected cervical vertebra; and  
an inferior implant having an articulating surface and a fixation surface and configured for secured placement on a resurfaced inferior articular facet of a cervical vertebra or occiput immediately above the selected cervical vertebra such that the articulating surface of the inferior implant interacts with the articular surface of the superior implant.
2. (Previously presented) The cervical facet resurfacing implant of claim 1 wherein the superior implant and inferior implant are each generally disk-shaped.
3. Cancelled.
4. (Currently amended) The cervical facet resurfacing implant of claim ~~3~~1 wherein the superior implant further comprises ~~tab is~~ configured for attachment to the lateral mass of the selected cervical vertebra.
5. (Currently amended) The cervical facet resurfacing implant of claim 4 wherein the tab is configured for ~~attached~~ attachment to the lateral mass of the selected cervical vertebra with a screw.
6. (Currently amended) The cervical facet resurfacing implant of claim ~~3~~4 wherein the tab ~~and the disk-shaped portion~~ extends from the remainder of the superior implant to form an angle of from about 110 degrees to about 160 degrees.
7. Cancelled.

8. (Currently amended) The cervical facet resurfacing implant of claim ~~7~~1 wherein the inferior implant further comprises a tab is configured for attachment to the inferior articular process of the cervical vertebra or occiput immediately above the selected cervical vertebra.

9. (Currently amended) The cervical facet resurfacing implant of claim ~~7~~8 wherein the tab is configured for attached attachment to the inferior articular process of the cervical vertebra or occiput immediately above the selected cervical vertebra with a screw.

10. (Currently amended) The cervical facet resurfacing implant of claim ~~7~~8 wherein the tab ~~and the disk shaped portion~~ extends from the remainder of the inferior implant to form an angle of from about 10 degrees to about 70 degrees.

11. (Currently amended) The cervical facet resurfacing implant of claim ~~1~~ wherein at least one of the superior implant ~~and or~~ the inferior implant comprises a surface fixation mechanism.

12. (Currently amended) The cervical facet resurfacing implant of claim ~~11~~ wherein the surface fixation mechanism comprises at least one of: at least one peg, at least one pip, at least one fin, ridges, ~~and or~~ at least one screw hole.

13. (Currently amended) The cervical facet resurfacing implant of claim ~~12~~ wherein the surface fixation mechanism comprises multiple regions and wherein each of the regions has ~~at least one~~ multiple ridges oriented in a different direction than the other regions.

14. (Currently amended) The cervical facet resurfacing implant of claim ~~1~~ wherein the fixation surface of at least one of the inferior implant ~~and or~~ the superior implant has at

Docket No. HORA.P0102US  
Serial No. 10/762,008

least one of: a porous coating, a porous onlay material, a biologic coating, a surface treatment, ~~and~~or a material facilitating ingrowth of bone.

15. (Currently amended) The cervical facet resurfacing implant of claim 1 wherein the articulating surface of at least one of the inferior implant ~~and~~or the superior implant is composed of at least one of: cobalt-chromium alloy, ceramic, UHMWPE, pyrolytic carbon, ~~and~~or Ti/Al/V.

16. (Previously presented) The cervical facet resurfacing implant of claim 1 wherein the inferior implant and superior implant each range from about 1 mm thick to about 6 mm thick.

17. (Previously presented) The cervical facet resurfacing implant of claim 1 wherein the inferior implant and superior implant each range from about 3 mm in diameter to about 14 mm in diameter.

18. (Previously presented) The cervical facet resurfacing implant of claim 1 further comprising a trans-lateral mass fixation mechanism for securing the inferior implant to the inferior articular facet.

19. (Currently amended) The facet implant of claim 18 wherein the trans-lateral mass fixation mechanism comprises at least one of: a ~~translaminar~~-screw, a bolt ~~and~~or a fixation pin.

20. (Currently amended) A facet implant comprising:

a generally disk-shaped superior implant having an articulating surface and a fixation surface and being configured for placement on a resurfaced superior articular facet of a selected cervical vertebra, the superior implant having a tab extending from the generally disk-shaped portion of the superior implant, the tab

being configured for secured attachment to the lateral mass of the selected vertebra; and

a generally disk-shaped inferior implant having an articulating surface and a fixation surface and being configured for placement on a resurfaced inferior articular facet of a cervical vertebra or occiput immediately above the selected cervical vertebra such that the articulating surface of the inferior implant interacts with the articular surface of the superior implant, the inferior implant having a tab extending from the generally disk-shaped portion of the inferior implant, the tab being configured for secured attachment to the inferior articular process of the cervical vertebra immediately above the selected vertebra.

21. (Currently amended) The cervical facet resurfacing implant of claim 20 wherein at least one of the superior implant ~~and~~ or the inferior implant comprises a surface fixation mechanism.

22. (Currently amended) The cervical facet resurfacing implant of claim 21 wherein the surface fixation mechanism comprises at least one of: at least one peg, at least one pip, at least one fin, ridges, ~~and~~ or at least one screw hole.

23. (Currently amended) The cervical facet resurfacing implant of claim 20 wherein the fixation surface of at least one of the inferior implant ~~and~~ or the superior implant has at least one of: a porous coating, a porous onlay material, a biologic coating, a surface treatment, ~~and~~ or a material facilitating ingrowth of bone.

24. (Currently amended) The cervical facet resurfacing implant of claim 20 wherein the articulating surface of at least one of the inferior implant ~~and~~ or the superior implant is composed of at least one of: cobalt-chromium alloy, ceramic, UHMWPE, pyrolytic carbon, ~~and~~ or Ti/Al/V.

25-37. Cancelled.

38. (New) A cervical facet resurfacing implant comprising:

superior implant means for providing an artificial articulating surface on a superior articular facet of a selected cervical vertebra, the superior implant means having an articulating surface and a fixation surface and being configured for secured placement on a resurfaced superior articular facet of a selected cervical vertebra; and

inferior implant means for providing an artificial articulating surface on an inferior articular facet, the inferior implant means having an articulating surface and a fixation surface and being configured for secured placement on a resurfaced inferior articular facet of a cervical vertebra or occiput immediately above the selected cervical;

wherein articulating surface of the superior implant means and the articulating surface of the inferior implant means are configured for articulating interaction.

39. (New) The cervical facet resurfacing implant of claim 38 wherein the superior implant means and inferior implant means are each generally disk-shaped.

40. (New) The cervical facet resurfacing implant of claim 38 wherein the superior implant means further comprises a tab configured for attachment to the lateral mass of the selected cervical vertebra.

41. (New) The cervical facet resurfacing implant of claim 40 wherein the tab is configured for attachment to the lateral mass of the selected cervical vertebra with a screw.

42. (New) The cervical facet resurfacing implant of claim 40 wherein the tab extends from the remainder of the superior implant means to form an angle of from about 110 degrees to about 160 degrees.

43. (New) The cervical facet resurfacing implant of claim 38 wherein the inferior implant means further comprises a tab configured for attachment to the inferior articular process of the cervical vertebra or occiput immediately above the selected cervical vertebra.

44. (New) The cervical facet resurfacing implant of claim 43 wherein the tab is configured for attachment to the inferior articular process of the cervical vertebra or occiput immediately above the selected cervical vertebra with a screw.

45. (New) The cervical facet resurfacing implant of claim 43 wherein the tab extends from the remainder of the inferior implant to form an angle of from about 10 degrees to about 70 degrees.

46. (New) The cervical facet resurfacing implant of claim 38 wherein at least one of the superior implant means or the inferior implant means comprises a surface fixation mechanism.

47. (New) The cervical facet resurfacing implant of claim 46 wherein the surface fixation mechanism comprises at least one of: at least one peg, at least one pip, at least one fin, ridges, or at least one screw hole.

48. (New) The cervical facet resurfacing implant of claim 38 wherein at least one of the superior implant means or the inferior implant means comprises a fixation surface having at least one of: a porous coating, a porous onlay material, a biologic coating, a surface treatment, or a material facilitating ingrowth of bone.

49. (New) The cervical facet resurfacing implant of claim 38 wherein at least one of the superior implant means or the inferior implant means comprises an articulating surface composed of at least one of: cobalt-chromium alloy, ceramic, UHMWPE, pyrolytic carbon, or Ti/Al/V.

50. (New) The cervical facet resurfacing implant of claim 38 wherein the inferior implant means and the superior implant means each range from about 1 mm thick to about 6 mm thick.

51. (New) The cervical facet resurfacing implant of claim 38 wherein the inferior implant means and the superior implant means each range from about 3 mm in diameter to about 14 mm in diameter.

52. (New) The cervical facet resurfacing implant of claim 38 further comprising a means for fixing the inferior implant to the inferior articulating facet through the lateral mass fixation mechanism for securing the inferior implant means to the inferior articular facet.

53. (New) The facet implant of claim 52 wherein the means for fixing the inferior implant comprises at least one of: a screw, a bolt or a fixation pin.